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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/675,585

09/29/2003

David Ehreth

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09/13/2005

ALCATEL USA  
INTELLECTUAL PROPERTY DEPARTMENT  
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PLANO, TX 75075

EXAMINER

SWERDLOW, DANIEL

ART UNIT

PAPER NUMBER

2646

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/675,585

Applicant(s)

EHRETH ET AL.

Examiner

Daniel Swerdlow

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 17-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 17-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 17, 22 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Cornes et al. (US Patent 6,272,217).
3. Regarding Claim 17, Cornes discloses a method for routing call processing communications in a telecommunications system that includes a digital loop carrier (i.e., operating a digital loop carrier) (Fig. 1, reference 4; column 3, lines 16-7) that includes multiple channels (i.e., provides one or more telephony bearer resources) comprising: receiving from a BPT card in the central office (Fig. 6, step 108; column 7, lines 36-39) a message oriented signal (Fig. 5, reference 70) including physical channel location (i.e., line identification specifying connectable end points) and activity code (i.e., action information specifying actions to be taken on the associated channel) (column 5, line 58 through column 6, line 19); generating an establish message (i.e., a message that includes line identification and action information) (Fig. 6, reference 110; column 7, lines 39-45; and sending the establish message to the LEC network (i.e., sending the generated message to the DLC) (Fig. 6, step 112; column 7, lines 45-46).
4. Regarding Claim 22, Cornes further discloses providing pulsed polarity, steady polarity, and trunk condition signaling (i.e., telephony resources for loop).
5. Claim 26 is essentially similar to Claim 17 and is rejected on the same grounds.

***Claim Rejections - 35 USC § 103***

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
7. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cornes in view of Daugherty et al. (US Patent 5,381,405).
8. Regarding Claim 21, Daugherty further discloses multi-party calls (column 13, lines 14-18).
9. Claims 18 through 20, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cornes in view of Giordano et al. (US Patent 6,366,662).
10. Regarding Claim 18, as shown above apropos of Claim 17, Cornes anticipates all elements except providing telephony resources for tone detection and generation. Giordano discloses providing digit collection and dial tone generation (i.e., tone detection and generation) (column 4, lines 47-49). Giordano further discloses that such a system allows the remote terminal to assume functions of a switch. It would have been obvious to one skilled in the art at the time of the invention to apply digit collection and dial tone generation as taught by Giordano to the routing method taught by Cornes for the purpose of realizing the aforesaid advantages.
11. Regarding Claim 19, Giordano further discloses generating all call resources (i.e., tone detection and generation) (column 4, lines 49-58).
12. Regarding Claim 20, Giordano further discloses generating all call resources (i.e., detecting and generating pulse dialing, multi-frequency tones and dual tone multi-frequency tones) (column 4, lines 49-58).

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13. Regarding Claims 24 and 25, as shown above apropos of Claim 17, Cornes anticipates all elements except providing telephony resources for tone detection and generation. Giordano discloses generating all call resources (i.e., providing frequency shift keying modem tones) (column 4, lines 49-58). Giordano further discloses that such a system allows the remote terminal to assume functions of a switch. Because provision of caller id and message waiting indication services by a switch is well known and provided using frequency shift keying modem tones, it would have been obvious to one skilled in the art at the time of the invention to apply providing frequency shift keying modem tones as taught by Giordano to the routing method taught by Cornes for the purpose of providing all functions of a switch.

14. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cornes.

15. Regarding Claim 23, as shown above apropos of Claim 22, Cornes anticipates all elements except loop-start, ground start, loop-reverse battery and E&M signaling. Because these are all standard trunk signaling schemes, it would have been obvious to one skilled in the art at the time of the invention to apply well known loop-start, ground start, loop-reverse battery and E&M signaling to the system taught by Cornes for the purpose of making the system usable with existing trunk facilities.

#### *Response to Arguments*

16. Applicant's arguments filed 5 July 2005 have been fully considered but they are not persuasive. Applicant alleges that Cornes fails to disclose "providing one or more telephony bearer resources in the digital loop carrier" as claimed in Claim 17 or "one or more telephony

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bearer resources configured to be situated in the digital loop carrier” as claimed in Claim 26.

Examiner respectfully disagrees. As is clear from the rejection of Claim 1 in the prior Office action, Cornes discloses a digital loop carrier with a plurality of LEC network lines (Fig. 2, reference 46) and subscriber lines (Fig. 2, reference 48) that form endpoints of the DLC system and correspond to the one or more telephony bearer resources claimed for processing calls.

### *Conclusion*

17. In response to applicant’s canceling Claim 1, examiner has clarified the rejection of Claim 17 made in the prior Office action. No new grounds of rejection have been added.

18. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Swerdlow whose telephone number is 571-272-7531. The examiner can normally be reached on Monday through Friday between 7:30 AM and 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H. Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Daniel Swerdlow  
Examiner  
Art Unit 2646

ds  
7 September 2005